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RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/918,887

DATE: 08/28/2001
 TIME: 14:25:40

Input Set : N:\Crf3\RULE60\09918887.txt
 Output Set: N:\CRF3\08282001\I918887.raw

SEQUENCE LISTING

4 (1) GENERAL INFORMATION:

6 (i) APPLICANT: Rybak, Susanna M.
 7 Newton, Dianne L.
 8 Goldenberg, David M.

10 (ii) TITLE OF INVENTION: Immunotoxins Directed Against Malignant
 11 Cells

13 (iii) NUMBER OF SEQUENCES: 3

15 (iv) CORRESPONDENCE ADDRESS:

16 (A) ADDRESSEE: Townsend and Townsend and Crew LLP
 17 (B) STREET: Two Embarcadero Center, Eighth Floor
 18 (C) CITY: San Francisco
 19 (D) STATE: California
 20 (E) COUNTRY: USA
 21 (F) ZIP: 94111-3834

23 (v) COMPUTER READABLE FORM:

24 (A) MEDIUM TYPE: Floppy disk
 25 (B) COMPUTER: IBM PC compatible
 26 (C) OPERATING SYSTEM: PC-DOS/MS-DOS
 27 (D) SOFTWARE: PatentIn Release #1.0, Version #1.30

ENTERED

29 (vi) CURRENT APPLICATION DATA:

30 (A) APPLICATION NUMBER: US/09/918,887
 31 (B) FILING DATE: 30-Jul-2001
 32 (C) CLASSIFICATION:

34 (vii) PRIOR APPLICATION DATA:

35 (A) APPLICATION NUMBER: 09/071,672
 36 (B) FILING DATE: 01-MAY-1998

38 (viii) ATTORNEY/AGENT INFORMATION:

39 (A) NAME: Weber, Ellen Lauver
 40 (B) REGISTRATION NUMBER: 32,762
 41 (C) REFERENCE/DOCKET NUMBER: 015280-32510US

43 (ix) TELECOMMUNICATION INFORMATION:

44 (A) TELEPHONE: (415) 576-0200
 45 (B) TELEFAX: (415) 576-0300

48 (2) INFORMATION FOR SEQ ID NO: 1:

50 (i) SEQUENCE CHARACTERISTICS:

51 (A) LENGTH: 104 amino acids
 52 (B) TYPE: amino acid
 53 (C) STRANDEDNESS:
 54 (D) TOPOLOGY: linear

56 (ii) MOLECULE TYPE: protein

59 (ix) FEATURE:

60 (A) NAME/KEY: Modified-site
 61 (B) LOCATION: 1
 62 (D) OTHER INFORMATION: /product= "OTHER"

63 /note= "Xaa = Glu or pyroglutamic acid"

65 (ix) FEATURE:

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66 (A) NAME/KEY: Protein
 67 (B) LOCATION: 1..104
 68 (D) OTHER INFORMATION: /note= "RNase A derived from
 69 Rana pipiens, "onc protein"
 70 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
 W--> 71 Xaa Asp Trp Leu Thr Phe Gln Lys Lys His Ile Thr Asn Thr Arg Asp
 72 1 5 10 15
 73 Val Asp Cys Asp Asn Ile Met Ser Thr Asn Leu Phe His Cys Lys Asp
 74 20 25 30
 75 Lys Asn Thr Phe Ile Tyr Ser Arg Pro Glu Pro Val Lys Ala Ile Cys
 76 35 40 45
 77 Lys Gly Ile Ile Ala Ser Lys Asn Val Leu Thr Thr Ser Glu Phe Tyr
 78 50 55 60
 79 Leu Ser Asp Cys Asn Val Thr Ser Arg Pro Cys Lys Tyr Lys Leu Lys
 80 65 70 75 80
 81 Lys Ser Thr Asn Lys Phe Cys Val Thr Cys Glu Asn Gln Ala Pro Val
 82 85 90 95
 83 His Phe Val Gly Val Gly Ser Cys
 84 100
 85 (2) INFORMATION FOR SEQ ID NO: 2:
 86 (i) SEQUENCE CHARACTERISTICS:
 87 (A) LENGTH: 249 base pairs
 88 (B) TYPE: nucleic acid
 89 (C) STRANDEDNESS: single
 90 (D) TOPOLOGY: linear
 W--> 91 (ii) MOLECULE TYPE: DNA
 92 (ix) FEATURE:
 93 (A) NAME/KEY: -
 94 (B) LOCATION: 1..249
 95 (D) OTHER INFORMATION: /note= "nucleic acid encoding
 96 "onc protein"
 97 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
 98 99 GATGTTGATT GTGATAATAT CATGTCAACA AACTGTTCC ACTGCAAGGA CAAGAACACT 60
 100 101 TTTATCTATT CACGTCCTGA GCCAGTGAAG GCCATCTGTA AAGGAATTAT AGCCTCCAAA 120
 102 103 AATGTGTTAA CTACCTCTGA GTTTTATCTC TCTGATTGCA ATGTAACAAG CAGGCCTTG 180
 104 105 AAGTATAAAT TAAAGAAATC AACTAATAAA TTTGTGTA CTTGTGAAA TCAGGCACCA 240
 106 107 GTTCATTTT 249
 108 (2) INFORMATION FOR SEQ ID NO: 3:
 109 (i) SEQUENCE CHARACTERISTICS:
 110 (A) LENGTH: 83 amino acids
 111 (B) TYPE: amino acid
 112 (C) STRANDEDNESS:
 113 (D) TOPOLOGY: linear
 114 (ii) MOLECULE TYPE: protein
 115 (ix) FEATURE:
 116 (A) NAME/KEY: Protein
 117 (B) LOCATION: 1..83
 118 (D) OTHER INFORMATION: /note= "'onc protein", positions 16-98
 119 of SEQ ID NO:1"

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145 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
147 Asp Val Asp Cys Asp Asn Ile Met Ser Thr Asn Leu Phe His Cys Lys
148 1 5 10 15
150 Asp Lys Asn Thr Phe Ile Tyr Ser Arg Pro Glu Pro Val Lys Ala Ile
151 20 25 30
153 Cys Lys Gly Ile Ile Ala Ser Lys Asn Val Leu Thr Thr Ser Glu Phe
154 35 40 45
156 Tyr Leu Ser Asp Cys Asn Val Thr Ser Arg Pro Cys Lys Tyr Lys Leu
157 50 55 60
159 Lys Lys Ser Thr Asn Lys Phe Cys Val Thr Cys Glu Asn Gln Ala Pro
160 65 70 75 80
162 Val His Phe

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/918,887

DATE: 08/28/2001

TIME: 14:25:42

Input Set : N:\Crf3\RULE60\09918887.txt

Output Set: N:\CRF3\08282001\I918887.raw

L:30 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]

L:31 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]

L:74 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1

L:104 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=2